

PRELIMINARY

TECHNICAL SPECIFICATIONS

FB16-20-Q1

TCM Lite Range, optimal specification for day to day operations, without compromising engineering excellence, long-term performance and outstanding reliability.

EASY TO USE, SIMPLE TO MAINTAIN.

TCM FB16-20-Q1 with 1600 kg and 2000 kg load capacity and up to 6 metre lift height, delivers the optimum **power and 4-wheel stability for light to medium-duty tasks both indoor and on outdoor uneven surfaces**, ensuring effective performance without overspecification.

Intuitive, straightforward **Mechanical Control** reduces training time and boosts productivity from day one. **Comfort-focused seat** design minimises vibration, reducing operator fatigue and enhancing focus.

Superior shock absorption with front and rear **super elastic tyres** for smooth handling and extended tyre life, even on uneven surfaces.

Full road light kit (including hazard light button) meets visibility standards for safer operation indoors and outdoors. **Blue spot** projects a clear warning light to alert pedestrians, reducing collision risks in busy areas. High visibility **strobe light** in low-light conditions enhances safety across all environments.

Audible alerts from the **Reverse Warning Buzzer** improve awareness and prevent accidents during reversing manoeuvres. **Parabolic Mirror** with wider rear visibility eliminates blind spots for safer navigation.

Rapid opportunity-charging **Li-ion Standard Battery (No Lead Acid)** with zero maintenance, and no water filling, is always ready to keep your business moving.



FB16-20-Q1

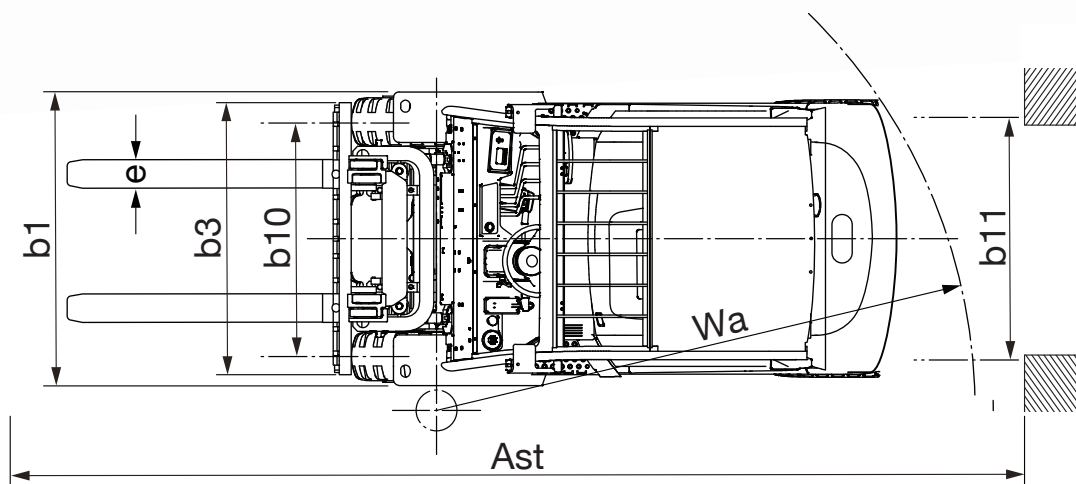
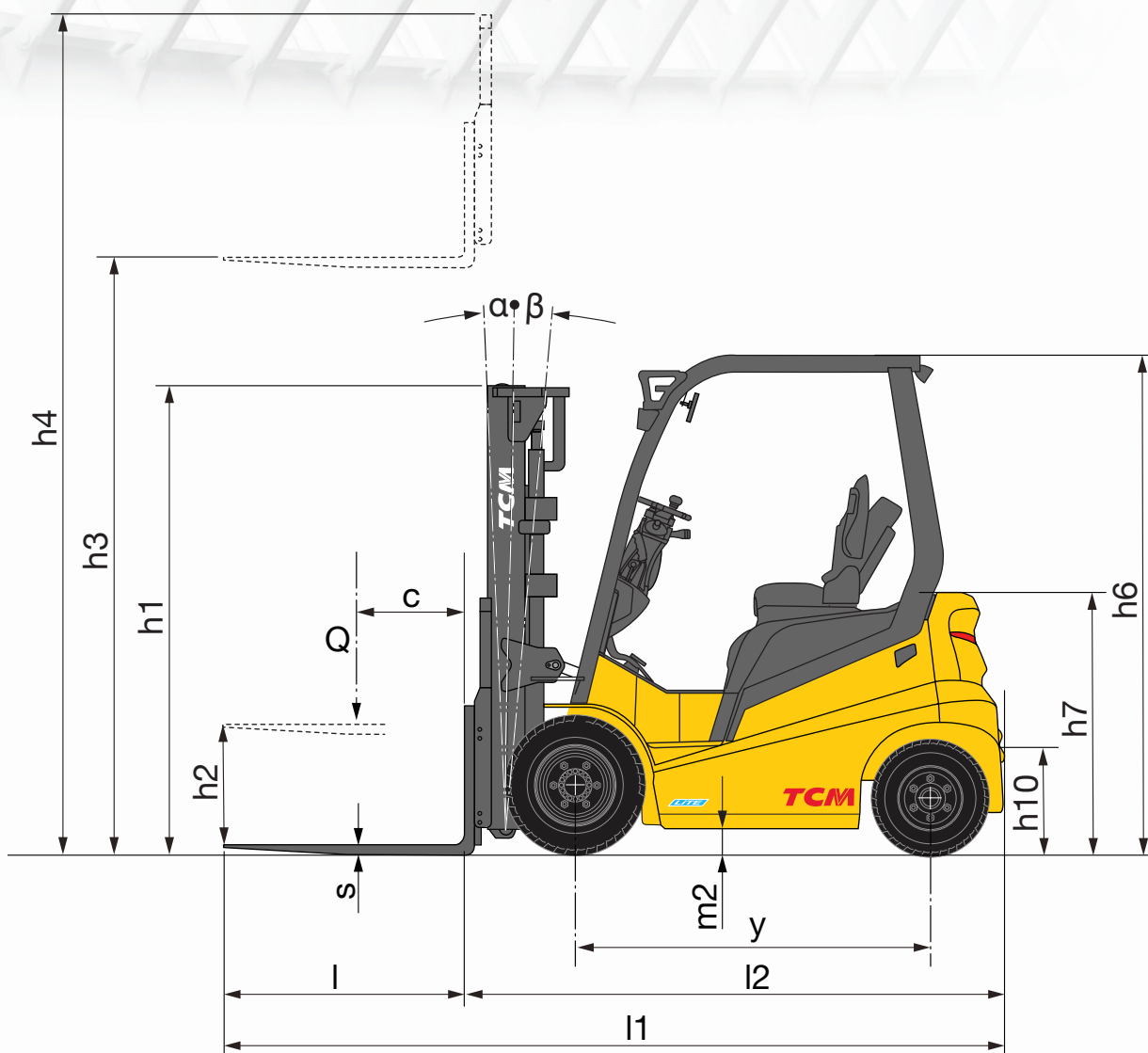
STANDARD SPECIFICATIONS

CHARACTERISTICS					
1.01	Manufacturer			TCM Forklifts	
1.02	Manufacturer's model designation			FB16-Q1	FB20-Q1
1.03	Power source: (battery, diesel, LPG, petrol)			Electric	Electric
1.04	Operator type: pedestrian, standing, seated			Seated	Seated
1.05	Load capacity	Q	(kg)	1600	2000
1.06	Load centre distance	c	(mm)	500	500
1.08	Load distance, axle to fork face	x	(mm)	372	377
1.09	Wheelbase	y	(mm)	1360	1490
WEIGHT					
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	3100	3520
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	4180/520	4910/610
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1490/1610	1700/1820
WHEELS, DRIVE TRAIN					
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			Super Elastic	Super Elastic
3.02	Tyre dimensions, front			18x7-8	200/50-10
3.03	Tyre dimensions, rear			15x4.5/-8	15x4.5/-8
3.05	Number of wheels, front/rear (x=driven)			2x / 2	2x / 2
3.06	Track width (centre of tyres), front	b10	(mm)	902	902
3.07	Track width (centre of tyres), rear	b11	(mm)	187	187
DIMENSIONS					
4.01	Mast tilt, forwards/backwards	α/β	°	5 /7	5/7
4.02	Height with mast lowered (see tables)	h1	(mm)	1995	1995
4.03	Free lift (see tables)	h2	(mm)	125	125
4.04	Lift height (see tables)	h3	(mm)	3000	3000
4.05	Overall height with mast raised	h4	(mm)	3955	3955
4.07	Height to top of overhead guard	h6	(mm)	2100	2100
4.08	Seat height	h7	(mm)	1005	1005
4.12	Tow coupling height	h10	(mm)	465	465
4.19	Overall length	l1	(mm)	2870	3155
4.20	Length to fork face (includes fork thickness)	l2	(mm)	1950	2085
4.21	Overall width	b1	(mm)	1084	1084
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	35/100/920	40/100/1070
4.23	Fork carriage iso 2328/30, FEM/A,B				
4.24	Fork carriage width	b3	(mm)	1040	1040
4.31	Ground clearance under mast, with load	m1	(mm)	105	105
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2	(mm)	105	105
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3268	3403
4.34a	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)		
4.34b	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast	(mm)	3393	3527
4.35	Turning circle radius	Wa	(mm)	1570	1700
4.36	Minimum distance between centres of rotation	b13	(mm)		
PERFORMANCE					
5.01	Travel speed, with/without load		km/h	14/15	13/15
5.02	Lifting speed, with/without load		m/s	0.32/0.4	0.30/0.4
5.03	Lowering speed, with/without load		m/s	< 600	< 600
5.05	Rated drawbar pull, with/without load		N		
5.06	Rated drawbar pull, with/without load (5 min short duty)		N		
5.07	Gradeability, with/without load		%		
5.08	Maximum gradeability, with/without load		%	15/20	13/18
5.09	Acceleration time (10 metres) with / without load		s		
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Hydraulic	Hydraulic
ELECTRIC MOTOR					
6.01	Drive motor capacity (60 min. short duty)		kW	4.5¹	4.5¹
6.02	Lift motor output at 15% duty factor		kW	8.6	8.6
6.03	Battery to DIN 43 531 / 35 / 36 A / B / C / no			Li-ion	Li-ion
6.04	Battery voltage		V/Ah	Lion:51.2/ 206(277option)	Lion:51.2/ 206(277option)
6.05	Battery weight (including container)		kg	450	450
6.6a	Energy consumption according to DIN EN 16796		kW/h	4.21	4.69
6.6b	Energy consumption acc. to VDI cycle²		kW/h		
MISCELLANEOUS					
8.01	Type of drive control			AC	AC
10.01	Maximum operating pressure for attachments		bar	17.5	17.5
10.02	Oil flow for attachments		l/min	36	36
10.07	Noise level, value at operator's ear (EN 12053)		dB(A)	73	73
10.08	Towing coupling, type DIN 15170				

1. Custom design fork carriage 2. Cycles performed / cycles requested

OPTIONS
Integrated & external charger - for fast and flexible charging options
Higher travel and lift speed - for faster handling and shorter cycle times
Glass roof on standard overhead guard - to keep operator dry increasing safety from falling goods
Fingertip incl forward reverse - for effortless precision control
High end seat - Grammar MSG65 - for greater operator comfort and posture support
Front window with wiper - for visibility in light rain and dusty conditions
Cold storage modification - for greater efficiency in low temperature settings
Non-marking SE tyres - to keep floors clean and mark-free
Fork positioner including sideshift - for faster more accurate load placement

DIMENSIONS FB16-20-Q1



MAST SPECIFICATIONS & RATED CAPACITIES

FB16-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB16-Q1			
		Lowered	Extended			Without sideshift		With sideshift	
						Load capacity (kgs) @ load centre (mm) - Super elastic tyres			
	h3	h1	h4	h2	∅/β	500	600	500	600
DUPLEX	3000	2053	3982	130	6/10	1600	1450	1450	1300
	3300	2203	4282	110	6/10	1600	1450	1450	1300
	4000	2603	4982	110	6/6	1500	1360	1350	1210
TRIPLEX	4300	2103	5280	1153	6/6	1400	1270	1250	1120
	4500	2153	5480	1203	6/6	1300	1170	1150	1020
	4800	2253	5780	1303	6/6	1000	900	850	750
	5000	2353	5980	1403	6/6	900	816	750	666
	5500	2503	6480	1553	3/6	800	725	650	575
	6000	2703	6980	1753	3/6	700	635	550	485

FB20-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB20-Q1			
		Lowered	Extended			Without sideshift		With sideshift	
						Load capacity (kgs) @ load centre (mm) - Super elastic tyres			
	h3	h1	h4	h2	α/β	500	600	500	600
DUPLEX	3000	2053	3982	130	6/10	2000	1810	1850	1660
	3300	2203	4282	110	6/10	2000	1810	1850	1660
	4000	2603	4982	110	6/6	1800	1633	1800	1483
TRIPLEX	4300	2103	5280	1153	6/6	1600	1450	1600	1300
	4500	2153	5480	1203	6/6	1500	1360	1500	1210
	4800	2253	5780	1303	6/6	1200	1080	1200	930
	5000	2353	5980	1403	6/6	1100	990	1100	840
	5500	2503	6480	1553	3/6	900	810	900	660
	6000	2703	6980	1753	3/6	800	725	800	575

